

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
21 October 2004 (21.10.2004)

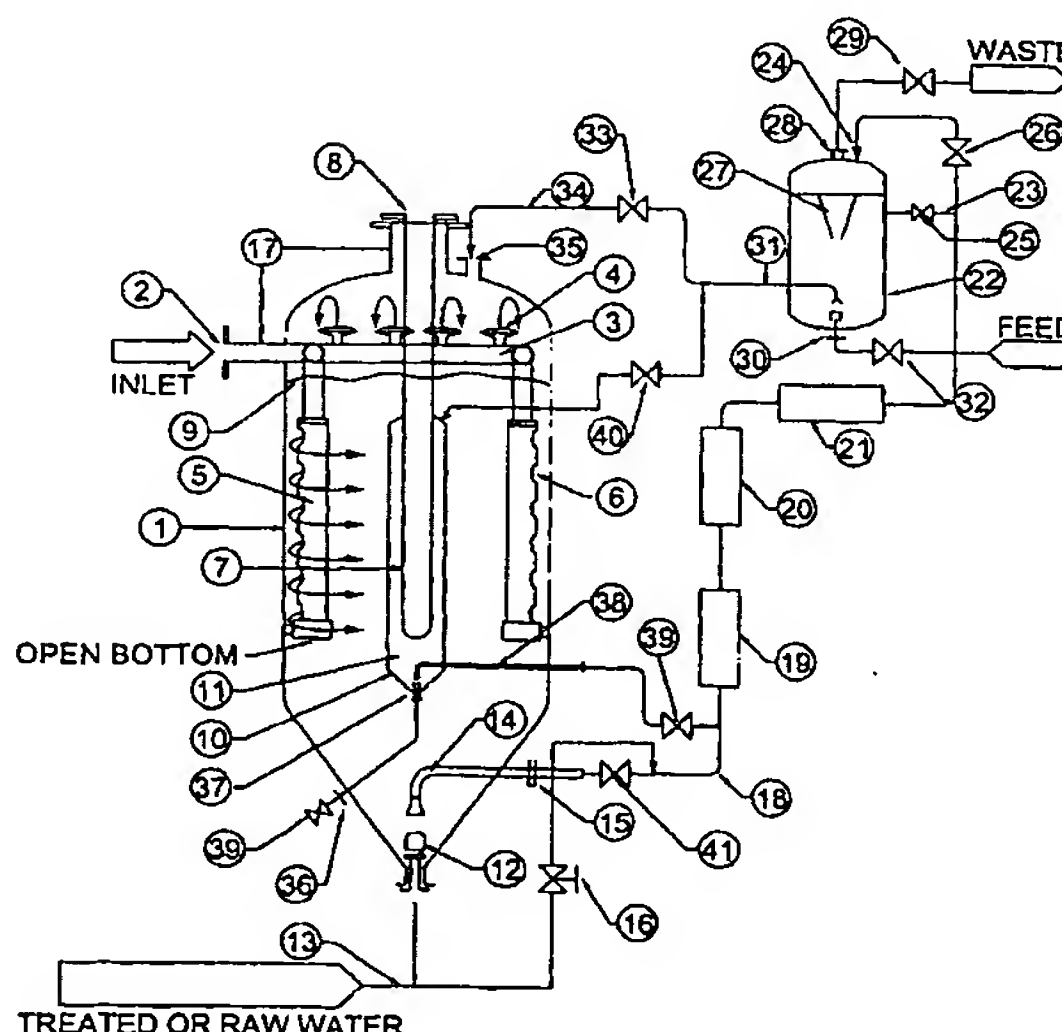
PCT

(10) International Publication Number  
**WO 2004/089505 A1**

- (51) International Patent Classification<sup>7</sup>: **B01D 24/02**, 24/04, 24/30, 24/36, 24/38, 24/40, 24/46
- (74) Agent: GILES, Ashley, Simon; Haseltine Lake, Imperial House, 15-19 Kingsway, London WC2B 6UD (GB).
- (21) International Application Number: PCT/GB2004/001351
- (81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (22) International Filing Date: 31 March 2004 (31.03.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 0308291.4 10 April 2003 (10.04.2003) GB
- (84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- (71) Applicant (*for all designated States except US*): DYNAMIC PROCESSING SOLUTIONS PLC [GB/GB]; Dynamic House, 8-10 Combe Road, Portishead, Bristol BS20 6BJ (GB).
- (72) Inventor; and
- (75) Inventor/Applicant (*for US only*): PARKINSON, David, John [GB/GB]; Arodene, Walton-in-Gordano, Clevedon, North Somerset BS21 7AR (GB).
- Published:  
— with international search report

[Continued on next page]

(54) Title: FILTRATION APPARATUS



(57) Abstract: A radial or crossflow media filter comprising a housing such as a vessel or tank (1), the housing containing filter media (9), a contaminated flow inlet (2) and a discharge outlet (8), the inlet comprising a manifold (5) situated within the housing, the manifold (5) having flow outlets (6) which are directed laterally, away from the discharge outlet (8). The flow inlet may comprise a substantially vertically aligned elongate tubular manifold (5) with a plurality of flow distribution holes or slots disposed along its length. Furthermore, the discharge outlet (8) may be accessed through a chamber within the housing which contains a second filter media (11) which is of larger average particle size than the first filter media (9).



— with amended claims and statement

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*